

(2)

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/736,076

DATE: 01/04/2001  
 TIME: 08:57:12

Input Set : A:\12421015-009.txt  
 Output Set: N:\CRF3\01042001\I736076.raw

4 <110> APPLICANT: Ben-Sasson Shmuel A.  
 6 <120> TITLE OF INVENTION: SHORT PEPTIDES WHICH SELECTIVELY  
 7 MODULATE THE ACTIVITY OF SERINE/THREONINE KINASES  
 10 <130> FILE REFERENCE: 1212.1015-009  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/736,076  
 C--> 12 <141> CURRENT FILING DATE: 2000-12-13  
 12 <150> PRIOR APPLICATION NUMBER: US 08/861,338  
 13 <151> PRIOR FILING DATE: 1997-03-21  
 15 <160> NUMBER OF SEQ ID NOS: 68  
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 20  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Unknown  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: RAP  
 27 <400> SEQUENCE: 1  
 28 Tyr Glu Leu Met Thr Gly Gln Leu Pro Tyr Ser His Ile Asn Asn Arg  
 29 1 5 10 15  
 30 Asp Gln Ile Ile  
 31 20  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 20  
 36 <212> TYPE: PRT  
 37 <213> ORGANISM: Unknown  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: CAPF  
 42 <400> SEQUENCE: 2  
 43 Tyr Glu Met Ala Ala Gly Tyr Pro Pro Phe Phe Ala Asp Gln Pro Ile  
 44 1 5 10 15  
 45 Gln Ile Tyr Glu  
 46 20  
 49 <210> SEQ ID NO: 3  
 50 <211> LENGTH: 20  
 51 <212> TYPE: PRT  
 52 <213> ORGANISM: Unknown  
 54 <220> FEATURE:  
 55 <223> OTHER INFORMATION: PKC  
 57 <400> SEQUENCE: 3  
 58 Tyr Glu Met Leu Ala Gly Gln Pro Pro Phe Asp Gly Glu Asp Glu Asp  
 59 1 5 10 15  
 60 Glu Leu Phe Gln  
 61 20  
 64 <210> SEQ ID NO: 4  
 65 <211> LENGTH: 20  
 66 <212> TYPE: PRT  
 67 <213> ORGANISM: Unknown

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69 <220> FEATURE:  
70 <223> OTHER INFORMATION: DARK1.2  
72 <400> SEQUENCE: 4  
73 Phe Lys Leu Ile Arg Gly His Ser Pro Phe Arg Gln His Lys Thr Cys  
74 1 5 10 15  
75 Asp Lys His Gln  
76 20  
79 <210> SEQ ID NO: 5  
80 <211> LENGTH: 20  
81 <212> TYPE: PRT  
82 <213> ORGANISM: Unknown  
84 <220> FEATURE:  
85 <223> OTHER INFORMATION: CaMK  
87 <400> SEQUENCE: 5  
88 Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp Glu Asp Gln His  
89 1 5 10 15  
90 Arg Leu Tyr Gln  
91 20  
94 <210> SEQ ID NO: 6  
95 <211> LENGTH: 20  
96 <212> TYPE: PRT  
97 <213> ORGANISM: Unknown  
99 <220> FEATURE:  
100 <223> OTHER INFORMATION: POLO  
102 <400> SEQUENCE: 6  
104 Tyr Thr Leu Leu Val Gly Lys Pro Pro Phe Glu Thr Ser Cys Leu Lys  
104 1 5 10 15  
105 Glu Thr Tyr Leu  
106 20  
109 <210> SEQ ID NO: 7  
110 <211> LENGTH: 20  
111 <212> TYPE: PRT  
112 <213> ORGANISM: Unknown  
114 <220> FEATURE:  
115 <223> OTHER INFORMATION: AKT/PKB  
117 <400> SEQUENCE: 7  
118 Tyr Glu Met Met Cys Gly Arg Leu Pro Phe Tyr Asn Gln Asp His Gln  
119 1 5 10 15  
120 Arg Leu Phe Gln  
121 20  
124 <210> SEQ ID NO: 8  
125 <211> LENGTH: 20  
126 <212> TYPE: PRT  
127 <213> ORGANISM: Unknown  
129 <220> FEATURE:  
130 <223> OTHER INFORMATION: GRK1  
132 <400> SEQUENCE: 8  
133 Tyr Glu Met Ile Ala Ala Arg Gly Pro Phe Arg Ala Arg Gly Glu Lys  
134 1 5 10 15

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135 Val Glu Asn Lys  
136 20  
139 <210> SEQ ID NO: 9  
140 <211> LENGTH: 20  
141 <212> TYPE: PRT  
142 <213> ORGANISM: Unknown  
144 <220> FEATURE:  
145 <223> OTHER INFORMATION: GRK4  
147 <400> SEQUENCE: 9  
148 Tyr Glu Met Ile Gin Gly His Ser Pro Phe Lys Lys Tyr Lys Glu Lys  
149 1 5 10 15  
150 Val Lys Trp Glu  
151 20  
154 <210> SEQ ID NO: 10  
155 <211> LENGTH: 20  
156 <212> TYPE: PRT  
157 <213> ORGANISM: Unknown  
159 <220> FEATURE:  
160 <223> OTHER INFORMATION: GRK5  
162 <400> SEQUENCE: 10  
163 Tyr Glu Met Ile Glu Gly Glu Ser Pro Phe Arg Gly Arg Lys Glu Lys  
164 1 5 10 15  
165 Val Lys Arg Glu  
166 20  
169 <210> SEQ ID NO: 11  
170 <211> LENGTH: 20  
171 <212> TYPE: PRT  
172 <213> ORGANISM: Unknown  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: GRK6  
177 <400> SEQUENCE: 11  
178 Tyr Glu Met Ile Ala Gly Gin Ser Pro Phe Gln Gin Arg Lys Lys  
179 1 5 10 15  
180 Ile Lys Arg Glu  
181 20  
184 <210> SEQ ID NO: 12  
185 <211> LENGTH: 20  
186 <212> TYPE: PRT  
187 <213> ORGANISM: Unknown  
189 <220> FEATURE:  
190 <223> OTHER INFORMATION: GSK3  
192 <400> SEQUENCE: 12  
193 Ala Glu Leu Leu Leu Gly Gln Pro Ile Phe Pro Gly Asp Ser Gly Val  
194 1 5 10 15  
195 Asp Gln Leu Val  
196 20  
199 <210> SEQ ID NO: 13  
200 <211> LENGTH: 8  
201 <212> TYPE: PRT

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Input Set : A:\12421015-009.txt  
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202 <213> ORGANISM: Artificial Sequence  
204 <220> FEATURE:  
205 <221> NAME/KEY: ACETYLATION  
206 <222> LOCATION: (1)...(9)  
208 <221> NAME/KEY: AMIDATION  
209 <222> LOCATION: (0)...(8)  
211 <223> OTHER INFORMATION: HJ38  
213 <400> SEQUENCE: 13  
214 Val Met Thr Gly Glu Leu Pro Phe  
215 1 5  
216 <210> SEQ ID NO: 14  
219 <211> LENGTH: 8  
220 <212> TYPE: PRT  
221 <213> ORGANISM: Artificial Sequence  
223 <220> FEATURE:  
224 <221> NAME/KEY: ACETYLATION  
225 <222> LOCATION: (1)...(0)  
226 <223> OTHER INFORMATION: position 5 is benzylester  
228 <221> NAME/KEY: AMIDATION  
229 <222> LOCATION: (0)...(8)  
231 <223> OTHER INFORMATION: HJ41  
233 <400> SEQUENCE: 14  
234 Val Met Thr Gly Glu Leu Pro Phe  
235 1 5  
236 <210> SEQ ID NO: 15  
239 <211> LENGTH: 9  
240 <212> TYPE: PRT  
241 <213> ORGANISM: Artificial Sequence  
243 <220> FEATURE:  
244 <221> NAME/KEY: ACETYLATION  
245 <222> LOCATION: (1)...(0)  
246 <223> OTHER INFORMATION: position 9 is benzylester  
248 <221> NAME/KEY: AMIDATION  
249 <222> LOCATION: (0)...(9)  
251 <223> OTHER INFORMATION: J42  
253 <400> SEQUENCE: 15  
254 Met Leu Leu Gly Arg Pro Pro Phe Glu  
255 1 5  
258 <210> SEQ ID NO: 16  
259 <211> LENGTH: 8  
260 <212> TYPE: PRT  
261 <213> ORGANISM: Artificial Sequence  
263 <220> FEATURE:  
264 <221> NAME/KEY: ACETYLATION  
265 <222> LOCATION: (1)...(0)  
267 <221> NAME/KEY: AMIDATION  
268 <222> LOCATION: (0)...(8)  
270 <223> OTHER INFORMATION: J43  
272 <400> SEQUENCE: 16

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273 Met Leu Leu Gly Lys Pro Pro Phe
274 1 5
277 <210> SEQ ID NO: 17
278 <211> LENGTH: 9
279 <212> TYPE: PRT
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <221> NAME/KEY: ACETYLATION
284 <222> LOCATION: (1)...(9)
285 <223> OTHER INFORMATION: position 9 is benzylester
287 <221> NAME/KEY: AMIDATION
288 <222> LOCATION: (0)...(9)
290 <223> OTHER INFORMATION: J43.1
292 <400> SEQUENCE: 17
293 Met Leu Leu Gly Lys Pro Pro Phe Glu
294 1 5
297 <210> SEQ ID NO: 18
298 <211> LENGTH: 9
299 <212> TYPE: PRT
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <221> NAME/KEY: ACETYLATION
304 <222> LOCATION: (1)...(9)
305 <223> OTHER INFORMATION: position 7 is benzylester
307 <221> NAME/KEY: AMIDATION
308 <222> LOCATION: (0)...(9)
310 <223> OTHER INFORMATION: J45
314 <400> SEQUENCE: 18
314 Leu Gly Arg Pro Pro Phe Glu Thr Ser
315 1 5
318 <210> SEQ ID NO: 19
319 <211> LENGTH: 11
320 <212> TYPE: PRT
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <221> NAME/KEY: ACETYLATION
325 <222> LOCATION: (1)...(9)
326 <223> OTHER INFORMATION: position 9 is benzylester
328 <221> NAME/KEY: AMIDATION
329 <222> LOCATION: (0)...(11)
331 <223> OTHER INFORMATION: J16
334 <400> SEQUENCE: 19
335 Met Leu Leu Gly Arg Pro Pro Phe Glu Thr Ser
336 1 5 10
339 <210> SEQ ID NO: 20
340 <211> LENGTH: 7
341 <212> TYPE: PRT
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:

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VERIFICATION SUMMARY  
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date